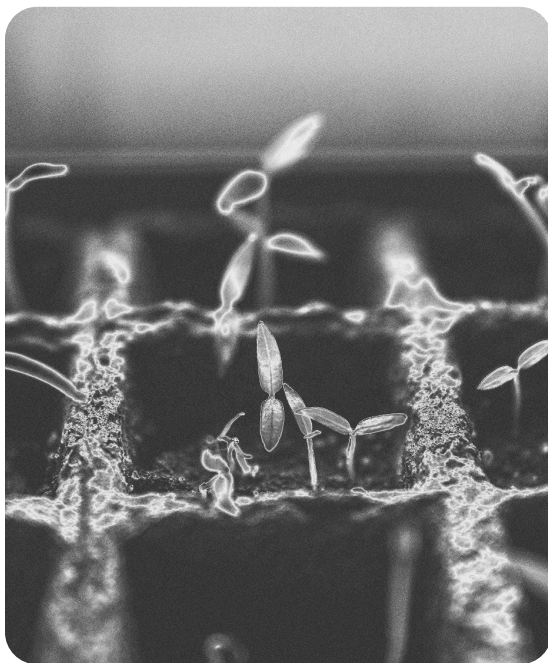


NutriValent™ Series

Organic Acid-Based Complexing Agents

Locally and sustainably produced to help maximize plant nutrition.

The NutriValent™ series are bio- and organic acid-based complexing agents used for transporting nutrients through foliar applications to help maximize plant nutrition. This series can be used as a more economical, environmentally favorable, and easy to use solution versus other traditional chelating or complexing agents, including but not limited to glucoheptonate, EDTA, HEDTA, and citric acid.



Typical Nutrient Content

Nutrient	%
Fe	5%
Zn	5%
Mg	3%
Ca	10%
Mn	5%
Cu	4%

Product Attributes

- Enables more efficient nutrient delivery
- Locally manufactured using Solugen’s unique and proprietary chemenzymatic process
- Climate pledge friendly – provides a more favorable greenhouse gas (GHG) emission profile
- Enables lower treatment costs vs. incumbent chemistries
- Biodegradable, NTA- and Cyanide-free

Product Specifications***

Specification	NutriValent™ Series			
	T15*	G16*	T25**	G25**
Product Form	Liquid	Liquid	Liquid	Liquid
Color	Colorless to dark amber	Colorless to dark amber	Yellow to dark amber	Yellow to dark amber
Water Solubility	Soluble	Soluble	Soluble	Soluble
pH	<2.0	3 – 4	<2.0	2 - 3
SG, 25°C	1.21 – 1.27	1.30 – 1.40	1.16 – 1.30	1.16 – 1.30

*NutriValent™ T15 and G16 are single-component products.

**NutriValent™ T25 and G25 are specially formulated blends of T15 and G16, respectively, to enhance performance.

***Please refer to the latest SDS and COA for the most up-to-date product information.



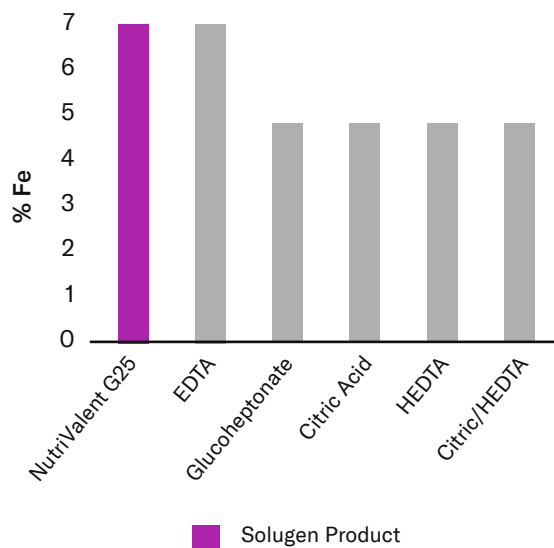
NutriValent™ Enables High Fe Content

NutriValent™ G25 Complex with Fe

Complexing Agent: NutriValent™ G25

Iron Source: Ferric Sulfate (CAS 10028-22-5)

Buffering Agent: Sodium hydroxide, 50%



Mix Procedure

- At room temperature, add the below ingredients into a beaker with stirrer:
 - 15g NutriValent™ G25
 - 15g Ferric sulfate salt
- Place the beaker on a stir plate. Once mixing starts, the solution will form a slurry.
- Add 5.7g of 50% Caustic slowly while mixing and let stir for 5-10 min. until the solution turns into a dark and clear, stable solution.

Physical Properties

- Fe content: 6%
- Specific gravity, 20°C: 1.5 – 1.6
- pH, 100%: <1
- pH, 10% aq. soln.: 1.27

About Solugen

Solugen is a bio-based specialty chemicals manufacturer and supplier whose mission is to decarbonize the chemical industry by revolutionizing the way chemicals are made for use across a variety of markets and applications.